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1 Transient anlaysis of a store-and-forward computer-communications network 85%

Albert B. Garcia , Wade H. Shaw

Proceedings of the 18th conference on Winter simulation December 1986

This paper presents the results of a study of transient behavior in a store-and-forward, computer-communications network. The purpose of this paper is to discuss the nature of network performance during severe loading of a network previously operating at steady state conditions. This knowledge is critical since networks are generally designed for a maximum steady state message load. When a transient situation develops, the network may not perform as originally intended and may produce exces ...

2 Using a distributed mini-computer network to automate a biochemical laboratory 82%

William J. Lennon , Eric L. Baatz , Sandra L. Colussi , Kenneth E. Kinnear

ACM SIGPLAN Notices , Proceedings of the ACM SIGMINI/SIGPLAN interface meeting on Programming systems in the small processor environment March 1976

Volume 11 Issue 4

This research considers a distributed system constructed by networking small computers as an appropriate architecture for the automation of laboratories having an integrated function. The simplicity, inherent reliability, and flexibility of such an architecture can be realized only if the laboratory as a whole and its proposed final operational characteristics are considered from the very beginning. This desire to automate an integrated laboratory forces us to address not only the normal pr ...

3 Issues in web design: Exploring navigational patterns on the web 82%

Don Zimmerman , Pat Walls

Proceedings of IEEE professional communication society international professional communication conference and Proceedings of the 18th annual ACM international conference on Computer documentation: technology & teamwork September 2000

We report on our preliminary analyses of our research designed to determine the navigational patterns users follow in Web and hierarchical Web sites. In all 33 participants completed the study using a within-subjects, Greco-Latin design where each person viewed two sites-one organized in Web structure and one organized in a hierarchical structure. The results suggest no significant difference in participants' perceptions of their navigation of the sites, the sites' ease of use, feeling lost, and ...

4 Semiautomatic generation of glossary links: a practical solution 82%

Hermann Kaindl , Stefan Kramer , Papa Samba Niang Diallo

Proceedings of the tenth ACM Conference on Hypertext and hypermedia : returning to our diverse roots: returning to our diverse roots February 1999

5 A statistical technique for comparing heuristics: an example from capacity assignment strategies in computer network design 82%

Richard Nance , Robert Moose , Robert Foutz

Communications of the ACM May 1987
Volume 30 Issue 5

An analysis of variance (ANOVA) model is developed for determining the existence of significant differences among strategies employing heuristics. Use of the model is illustrated in an application involving capacity assignment for networks utilizing the dynamic hierarchy architecture, in which the apex node is reassigned in response to changing environments. The importance of the model lies in the structure provided to the evaluation of heuristics, a major need in the asses ...

6 Information retrieval session 8: efficiency: Operational requirements for scalable search systems 80%

Abdur Chowdhury , Greg Pass

Proceedings of the twelfth international conference on Information and knowledge management November 2003

Prior research into search system scalability has primarily addressed query processing efficiency [1, 2, 3] or indexing efficiency [3], or has presented some arbitrary system architecture [4]. Little work has introduced any formal theoretical framework for evaluating architectures with regard to specific operational requirements, or for comparing architectures beyond simple timings [5] or basic simulations [6, 7]. In this paper, we present a framework based upon queuing network theory for analyz ...

7 Column: A case for context-aware TCP/IP 80%

Carey Williamson , Qian Wu

ACM SIGMETRICS Performance Evaluation Review March 2002
Volume 29 Issue 4

This paper discusses the design and evaluation of CATNIP, a Context-Aware Transport/Network Internet Protocol for the Web. This integrated protocol uses application-layer knowledge (i.e., Web document size) to provide explicit context information to the TCP and IP protocols. While this approach violates the traditional layered Internet protocol architecture, it enables informed decision-making, both at network endpoints and at network touters, regarding flow control, congestion control, and pack ...

8 Streaming 2: ReMDoR: remote multimedia document retrieval over partial order transport 80%

Phillip T. Conrad , Armando Caro , Paul Amer

Proceedings of the ninth ACM international conference on Multimedia October 2001

This paper presents results from performance experiments that demonstrate and quantify performance improvements when a PO/R transpor5t service is used instead of an ordered/reliable service (O/R e.g., TCP) or an unordered/unreliable service (e.g. UDP). We first describe the *Remote Multimedia Document Retrieval system (ReMDoR)*, an experimental application developed by the authors to evaluate the performance of remote document retrieval over a variety of transport protocols. We then provide ...

9 Studying programmer behavior experimentally: the problems of proper methodology 80%

Ruven E. Brooks

Communications of the ACM April 1980

Volume 23 Issue 4

The application of behavioral or psychological techniques to the evaluation of programming languages and techniques is an approach which has found increased applicability over the past decade. In order to use this approach successfully, investigators must pay close attention to methodological issues, both in order to insure the generalizability of their findings and to defend the quality of their work to researchers in other fields. Three major areas of methodological concern, the selection ...

10 Fault recovery for guaranteed performance communications connections 80%

Anindo Banerjea

IEEE/ACM Transactions on Networking (TON) October 1999

Volume 7 Issue 5

11 Automatic modeling of file system workloads using two-level arrival processes 80%

Peter P. Ware , Thomas W. Page , Barry L. Nelson

ACM Transactions on Modeling and Computer Simulation (TOMACS) July 1998

Volume 8 Issue 3

This article describes a method for analyzing, modeling, and simulating a two-level arrival-counting process. This method is particlarly appropriate when the number of independent processes is large, as is the case in our motivating application which requires analyzing and representing computer file system trace data for activity on nearly 8,000 files. The method is also applicable to network trace data characterizing communication patterns between pairs of computers. We apply cluster analy ...

12 Design-time simulation of a large-scale, distributed object system 80%

Svend Frølund , Pankaj Garg

ACM Transactions on Modeling and Computer Simulation (TOMACS) October 1998

Volume 8 Issue 4

We present a case study in using simulation at design time to predict the performance and scalability properties of a large-scale distributed object system. The system, called Consul, is a network management system designing to support hundreds of operators managing millions of network devices. It is essential that a system such as Consul be designed with performance and scalability in mind, but due to Consul's complexity and scale, it is hard to reason about performance and

scalability us ...

13 End-to-end routing behavior in the Internet 80%
Vern Paxson
IEEE/ACM Transactions on Networking (TON) October 1997
Volume 5 Issue 5

14 Modeling file-system input traces via a two-level arrival process 80%
Peter P. Ware , Thomas W. Page , Barry L. Nelson
Proceedings of the 28th conference on Winter simulation November 1996

15 Self disclosure on computer forms: meta-analysis and implications 80%
Suzanne Weisband , Sara Kiesler
Proceedings of the SIGCHI conference on Human factors in computing systems: common ground April 1996

16 End-to-end routing behavior in the Internet 80%
Vern Paxson
ACM SIGCOMM Computer Communication Review , Conference proceedings on Applications, technologies, architectures, and protocols for computer communications August 1996
Volume 26 Issue 4
The large-scale behavior of routing in the Internet has gone virtually without any formal study, the exception being Chinoy's analysis of the dynamics of Internet routing information [Ch93]. We report on an analysis of 40,000 end-to-end route measurements conducted using repeated "traceroutes" between 37 Internet sites. We analyze the routing behavior for pathological conditions, routing stability, and routing symmetry. For pathologies, we characterize the prevalence of routing loops, erroneous ...

17 A virtual loss-load congestion control strategy for high speed networks 80%
Narayanan Prithviraj , Carey L. Williamson
ACM SIGCOMM Computer Communication Review April 1996
Volume 26 Issue 2
This paper evaluates a hybrid congestion control strategy called the Virtual Loss-Load model. The approach combines the leaky bucket traffic shaper (a preventive congestion control mechanism) with the loss-load model (a reactive congestion control mechanism). Simulation is used to evaluate the virtual loss-load model, and to compare its performance to that of other reactive congestion control strategies from the literature. The evaluation is done using a benchmark suite of network scenarios prop ...

18 Studying the performance properties of concurrent programs by simulation experiments on synthetic programs 80%
Rosemary Candlin , Peter Fisk , Joe Phillips , Neil Skilling
ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1992 ACM SIGMETRICS joint international conference on Measurement and modeling of computer systems June 1992
Volume 20 Issue 1
We have developed a methodology for constructing performance models of different types of concurrent programs, and hence obtaining estimates of execution times on

different multiprocessor machines. A given class of program is characterized in terms of a small set of parameters which summarise the behaviour of the program over time. Synthetic programs with selected sets of parameters can then be generated and their execution simulated on a model of some given parallel machine. By varying the ...

19 Applications: Is semitransparency useful for navigating virtual environments? 77%

Luca Chittaro , Ivan Scagnetto

Proceedings of the ACM symposium on Virtual reality software and technology November 2001

A relevant issue for any Virtual Environment (VE) is the navigational support provided to users who are exploring it. Semitransparency is sometimes exploited as a means to see through occluding surfaces with the aim of improving user navigation abilities and awareness of the VE structure. Designers who make this choice assume that it is useful, especially in the case of VEs with many levels of occluding surfaces, e.g. virtual buildings or cities. This paper is devoted to investigate this assumpt ...

20 A study of Erlang ETS table implementations and performance 77%

Scott Lystig Fritchie

Proceedings of the 2003 ACM SIGPLAN workshop on Erlang August 2003

The viability of implementing an in-memory database, Erlang ETS, using a relatively-new data structure, called a Judy array, was studied by comparing the performance of ETS tables based on four data structures: AVL balanced binary trees, B-trees, resizable linear hash tables, and Judy arrays. The benchmarks used workloads of sequentially- and randomly-ordered keys at table populations from 700 keys to 54 million keys.Benchmark results show that ETS table insertion, lookup, and update operations ...

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12 Graphic model building system 77%

Yoshikazu Yamamoto , Mats Lenngren

The Proceedings of the 16th annual simulation symposium on Simulation March 1983

An interactive Graphic Model Building System (GMBS) for discrete event simulation is presented. The GMBS is designed so as to be used even for unexperienced users who have no previous knowledge about neither modeling nor simulation languages. We introduce a new concept in which a model is divided into two specifications, that is, structural relations between system components and description of the logical behavior of each component.

13 GMSS graphic modelling and simulation system 77%

R. R. Willis , W. P. Austell

The Proceedings of the 16th annual simulation symposium on Simulation March 1983

GMSS is a simulation modelling system providing a tool kit of functions to support the automation needs of simulation analysis. The goal of GMSS is to put simulation modelling into the hands of the decision maker.

14 Economic of online music 77%

Sudip Bhattacharjee , Ram D. Gopal , Kaveepan Lertwachara , James R. Marsden
Proceedings of the 5th international conference on Electronic commerce September 2003

Novel online file sharing technologies have created new market dynamics for the online distribution of *digital goods*. But the new potential benefits for consumers are juxtaposed against challenges and opportunities for sellers of such goods. Here we investigate one type of digital experience good, music, whose markets include the presence of piracy options. We present five different pricing models running from a base case of a traditional brick and mortar retailer not facing a piracy opti ...

15 Access to inter-organization computer networks 77%

Deborah Estrin
ACM SIGOIS Bulletin , Proceedings of the third ACM-SIGOIS conference on Office automation systems December 1986
Volume 7 Issue 2-3

When two or more organizations interconnect their internal computer networks they form an Inter-Organization Network (ION). This paper analyzes how this new medium changes the economics of inter-organization communication and interchange and can thereby support communications of greater intensity and scope. Furthermore, in the spirit of transaction cost theory [15], we analyze how the new communication patterns can in turn support changes in the organization of work and ind ...

16 Web technologies: Using web helper agent profiles in query generation 77%

Gabriel L. Somlo , Adele E. Howe
Proceedings of the second international joint conference on Autonomous agents and multiagent systems July 2003

Personalized information agents can help overcome some of the limitations of communal Web information sources such as portals and search engines. Two important components of these agents are: user profiles and information filtering or gathering services. Ideally, these components can be separated so that a single user profile can be leveraged for a variety of information services. Toward that end, we are building an information agent called *SurfAgent*; in previous studies, we have develope ...

17 VLSI based design principles for MIMD multiprocessor computers with distributed memory management 77%

Lars Philipson
ACM SIGARCH Computer Architecture News , Proceedings of the 11th annual international symposium on Computer architecture January 1984
Volume 12 Issue 3

Design principles for MIMD multiprocessor computers with virtual memory based on a common, global and uniform logical address space, supporting parallel, procedural languages such as Ada (Ada is a registered trademark of the US Government, AJPO), are discussed. The major design issues are identified and suggested solutions given, the most important of which are distributed, associative address translation, and local mechanisms supporting efficient resource allocation policies to reduce over ...

77%

18 A performance study of a Network Front End

Susan S. Poh , Paul D. Stoneburner , David C. Wood

Proceedings of the sixth symposium on Data communications November 1979

A Network Front End (NFE) is a mini-computer which is used to connect a host computer to the communicating network. The purpose of using an NFE, as contrasted to connecting the host computer directly to the network, is to reduce the processing load imparted to the host computer by the network interfacing software. This paper presents a comparative evaluation of the NFE attachment method in relation to the host direct connection method. The comparative evaluation addressed two maj ...

19 Building models: a direct but neglected approach to teaching computer science 77%

John E. Howland

The Journal of Computing in Small Colleges April 2002

Volume 17 Issue 5

The use of software models for teaching a variety of computer science topics is a valuable technique. Such models may be studied by reading and examining each model itself. Additionally, the models form the basis for experimentation. The J language is particularly well suited for modeling. It is not necessary that students be proficient in J programming to make effective use of J models and experiments with models are easily devised so that laboratory measurements may be taken. Example models fo ...

20 Collaborative learning in a virtual classroom: highlights of findings 77%

Starr Roxanne Hiltz

Proceedings of the 1988 ACM conference on Computer-supported cooperative work January 1988

Software to support teaching and learning activities was added to a computer-mediated communication system to create a "Virtual Classroom." Goals included improving access to and the effectiveness of college-level courses, particularly by facilitating collaborative learning. Process and outcomes were compared for sections of several courses taught in the traditional classroom, totally online, or in mixed mode. On the average, students report that the Virtual Classroom provides a ...

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41 Examining environmental influences on organizational perceptions and predisposition toward distributed work arrangements: a path model 77%
Choon-Ling Sia , Hock-Hai Teo , Bernard C. Y. Tan , Kwok-Kee Wei
Proceedings of the international conference on Information systems December 1998

42 Quantitative evidence for differences between learners making use of passive hypermedia learning environments 77%
Megan Quentin-Baxter
ACM Computing Surveys (CSUR) December 1999

43 Inter-linker consistency in the manual construction of hypertext documents 77%
Jonathan Furner , David Ellis , Peter Willett
ACM Computing Surveys (CSUR) December 1999

44 Enhancing a digital book with a reading recommender 77%
Allison Woodruff , Rich Gossweiler , James Pitkow , Ed H. Chi , Stuart K. Card
Proceedings of the SIGCHI conference on Human factors in computing systems April 2000

Digital books can significantly enhance the reading experience, providing many functions not available in printed books. In this paper we study a particular augmentation of digital books that provides readers with customized recommendations. We systematically explore the application of spreading activation

over text and citation data to generate useful recommendations. Our findings reveal that for the tasks performed in our corpus, spreading activation over text is more useful than citation d ...

45 Interactive discrete event simulation in Ada 77%
James R. Spiegel
Proceedings of the Joint Ada conference fifth national conference on Ada technology and fourth Washington Ada Symposium March 1987

46 APL design of graphic displays for motivation in distance education 77%
Alvin J. Surkan
ACM SIGAPL APL Quote Quad , Proceedings of the APL98 conference on Array processing language July 1998
Volume 29 Issue 3
APL is used in the experimental design of graphic displays to be applied in real-time, on-line education. These graphic displays are to be integrated in instructional dialogs. Our aim is to discover displays that will motivate students while they take computer mediated and distance learning courses. During the learning process, it is especially important for a student to receive feedback about his/her progress, continually and within a few tens of seconds of the most recent interaction. This fee ...

47 Distributed transactions for reliable systems 77%
Alfred Z. Spector , Dean Daniels , Daniel Duchamp , Jeffrey L. Eppinger , Randy Pausch
ACM SIGOPS Operating Systems Review , Proceedings of the tenth ACM symposium on Operating systems principles December 1985
Volume 19 Issue 5

48 Micro-GPSS on the Web and for Windows: a tool for introduction to simulation in high schools 77%
Henry Herper , Ingolf Ståhl
Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1 December 1999

49 Simulation using GPSS/H 77%
Robert C. Crain , James O. Henriksen
Proceedings of the 31st conference on Winter simulation: Simulation---a bridge to the future - Volume 1 December 1999

50 Routing as a flow control strategy in an integrated circuit/packet switched communications network 77%
Kenneth R. Hebert , Udo W. Pooch
Proceedings of the 18th conference on Winter simulation December 1986
This research addresses the analysis of an event-driven FORTRAN Simulation Model that simulates a special kind of Computer-Communication network. The network modeled has a circuit-switched communication subnet whose trunk lines carry both voice and data traffic simultaneously. This effort considers the viability of routing strategies as a mechanism for reducing congestion. The performance of seven alternative routing strategies are measured in terms of user-visible metrics. Based ...

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52 A performance evaluation of hyper text transfer protocols 77%
Paul Barford , Mark Crovella
ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1999 ACM SIGMETRICS international conference on Measurement and modeling of computer systems May 1999
Volume 27 Issue 1

53 A third-party value-added network service approach to reliable multicast 77%
Kunwadee Sripanidkulchai , Andy Myers , Hui Zhang
ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 1999 ACM SIGMETRICS international conference on Measurement and modeling of computer systems May 1999
Volume 27 Issue 1

54 Tutorials (summary) 77%
Tom Finholt , Mark S. Ackerman
Proceedings of the 1998 ACM conference on Computer supported cooperative work November 1998

55 Cooperative buildings—integrating information, organization and architecture 77%
Norbert A. Streitz
Proceedings of the 1998 ACM conference on Computer supported cooperative work November 1998

56 Performance evaluation of the MoM mobile multicast protocol 77%
Carey L. Williamson , Tim G. Harrison , Wayne L. Mackrell , Richard B. Bunt
Mobile Networks and Applications August 1998
Volume 3 Issue 2
This paper presents a performance study of a mobile multicast protocol called MoM, which is designed to support IP multicast for mobile hosts in an IP internetwork. The protocol uses the basic unicast routing capability of IETF Mobile IP, and leverages existing IP multicast to provide multicast services for mobile hosts as well. A key feature of the MoM protocol is the use of designated multicast service providers (DMSPs) to improve the scalability of mobile multicast. Discrete-event simula ...

57 Adaptive hybrid clock discipline algorithm for the network time protocol 77%
David L. Mills
IEEE/ACM Transactions on Networking (TON) October 1998
Volume 6 Issue 5

58 Web-based simulation experiments 77%
Enver Yücesan , Chun Hung Chen , Insup Lee
Proceedings of the 30th conference on Winter simulation December 1998

59 Visual simulation environment 77%
Osman Balci , Anders I. Bertelrud , Chuck M. Esterbrook , Richard E. Nance
Proceedings of the 30th conference on Winter simulation December 1998

60 Simulation with GPSS/H 77%
Robert C. Crain
Proceedings of the 30th conference on Winter simulation December 1998

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-	3719	(experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 17:56
-	606	((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1)) and (library same material)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:01
-	461	(((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1)) and (library same material)) and (experiment$2 same result$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 11:53
-	459	((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:02
-	352	(((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 11:54
-	338	((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:04
-	334	((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 12:23
-	303	(((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 12:24
-	349	((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 12:23
-	317	(((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:05
-	27	((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:35

-	0	(((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and (research same engine)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:25
-	27	(((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:28
-	0	(((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and (research same plan)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:25
-	26	(((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:26
-	26	((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:28
-	23	((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:29
-	22	(((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:07
-	2	((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:47
-	2	((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument)) and (high adj throughput)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:34

-	0	((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument)) and (high adj throughput)) and (infrared adj thermography)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:35
-	2	((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument)) and (high adj throughput)) and chromatography	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:36
-	2	((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument)) and (high adj throughput)) and chromatography) and day$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:38
-	1	((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument)) and (high adj throughput)) and chromatography) and day$1) and interactive	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:47
-	1	((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument)) and (high adj throughput)) and chromatography) and day$1) and interactive) and inventor$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:47
-	2	((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:47

-	1	((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:59
-	1	((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:50
-	1	((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:51
-	1	((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:51
-	1	((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:52

-	1	((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:56
-	0	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemicatalysis same biocatalysis)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:53
-	0	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemicatalysis or biocatalysis)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:53
-	0	chemicatalysis same biocatalysis	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 14:53
-	587	chemicatalysis or biocatalysis	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:05
-	234	(chemicatalysis or biocatalysis) and @pd<=20000324	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:37

-	1	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:01
-	0	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 same intermediate$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:02
-	1	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:02
-	0	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (fine adj chemical$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:17

-	1	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and fine	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 16:15
-	9154	fine adj chemical$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:04
-	34	(chemicatalysis or biocatalysis) and (fine adj chemical$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:05
-	0	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (special$2 adj chemical$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:17
-	4	((chemicatalysis or biocatalysis) and (fine adj chemical$1)) and (special$2 adj chemical$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:06
-	12	((chemicatalysis or biocatalysis) and (fine adj chemical$1)) and special$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:07
-	0	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (commodity adj chemical$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:17

-	0	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (fine same chemical$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:17
-	1	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (special$2 same chemical$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:17
-	0	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (special$2 same chemical$1)) and (commodity same chemical$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:33
-	1	((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (special$2 same chemical$1)) and polymer$7	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:26

-	1	((((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (special$2 same chemical$1)) and electron$2	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:26
-	0	((((((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (special$2 same chemical$1)) and polymer$7) and electron$2 and (composit$2 same alloy$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:27
-	1	((((((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (special$2 same chemical$1)) and polymer$7) and electron$2 and (composit$2 or alloy$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:28
-	0	((((((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (special$2 same chemical$1)) and polymer$7) and electron$2 and (composit$2 or alloy$1)) and (client$1 same server$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:28

-	1	((((((((((((((((((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and research) and plan$4) and evaluat$4) and database$1) and configur$6) and (automat$2 same synthesis same instrument$1)) and (high adj throughput) and chromatography and day$1 and interactive and inventor$3 and estimat$3) and (time same cost)) and parameter$1) and (chemical$1 same physical)) and (computer same network)) and custom$8) and (chemical same synthetic)) and (pharmaceutical$1 or intermediate$1)) and (special$2 same chemical$1)) and polymer$7) and electron$2 and (composit$2 or alloy$1)) and (client$1 or server$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:29
-	2	((chemicatalysis or biocatalysis) and (fine adj chemical$1)) and (commodity same chemical$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:37
-	3	((chemicatalysis or biocatalysis) and (fine adj chemical$1)) and commodity	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:36
-	1614	commodity same chemical$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:37
-	958	(commodity same chemical$1) and @pd<=20000324	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:38
-	367	((commodity same chemical$1) and @pd<=20000324) and (commodity adj chemical$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/16 15:38
-	18559	element$1 same day$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 14:59
-	0	((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process$3 same condition$1)) and (library same material)) and (experiment$2 same result$1)) and product$1) and matri$2) and element$1 and set$1) and laborator$3) and (user same interfac$2) and (element$1 same day$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:00
-	405	(experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:37
-	103	((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)) and (library same material)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:01

-	81	(((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)) and (library same material)) and (experiment$2 same result$1) and product$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:02
-	70	((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)) and (library same material)) and (experiment$2 same result$1) and product$1) and matri$2 and element$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:04
-	69	(((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)) and (library same material)) and (experiment$2 same result$1) and product$1) and matri$2 and element$1) and laborator$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:06
-	67	((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)) and (library same material)) and (experiment$2 same result$1) and product$1) and matri$2 and element$1) and laborator$3) and set$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:06
-	0	(((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)) and (library same material)) and (experiment$2 same result$1) and product$1) and matri$2 and element$1) and laborator$3) and set$1) and (user$1 same interfac$2) and research and plan$4 and evaluat$4 and database$1 and configur$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:08
-	1	(((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)) and (library same material)) and (experiment$2 same result$1) and product$1) and matri$2 and element$1) and laborator$3) and set$1) and (user$1 and interfac$2) and research and plan$4 and evaluat$4 and database$1 and configur$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:08
-	63	(((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)) and (library same material)) and (experiment$2 same result$1) and product$1) and matri$2 and element$1) and laborator$3) and set$1) and research and plan$4 and evaluat$4 and database$1 and configur$6	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:33
-	1	((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)) and (library same material)) and (experiment$2 same result$1) and product$1) and matri$2 and element$1) and laborator$3) and set$1) and research and plan$4 and evaluat$4 and database$1 and configur$6) and (experiment$2 same matri$2 same element$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:36
-	0	((((((((experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (element$1 same day$1)) and (library same material)) and (experiment$2 same result$1) and product$1) and matri$2 and element$1) and laborator$3) and set$1) and research and plan$4 and evaluat$4 and database$1 and configur$6) and (experiment$2 same result$1 same day$1 same librar$3)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:36
-	59	experiment$2 same result$1 same day$1 same librar$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:36

-	59	experiment$2 same result$1 same day$1 same librar$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 17:15
-	653	experiment$2 same matri$2 same element$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:36
-	0	(experiment$2 same result$1 same day$1 same librar$3) and (experiment$2 same matri$2 same element$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:36
-	23	(experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (experiment$2 same matri$2 same element$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 15:37
-	15	experiment$2 same result$1 same day$1 same librar$3 and month$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 17:16
-	0	(experiment$2 same result$1 same day$1 same librar$3 and month$1) and quarter$3	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 17:17
-	0	(experiment$2 same (design$1 or defin$3)) and (screen$3 same method$1) and (process same condition$1) and (custom adj material$1)	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 17:57
-	61	custom adj material$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/02/18 17:57